

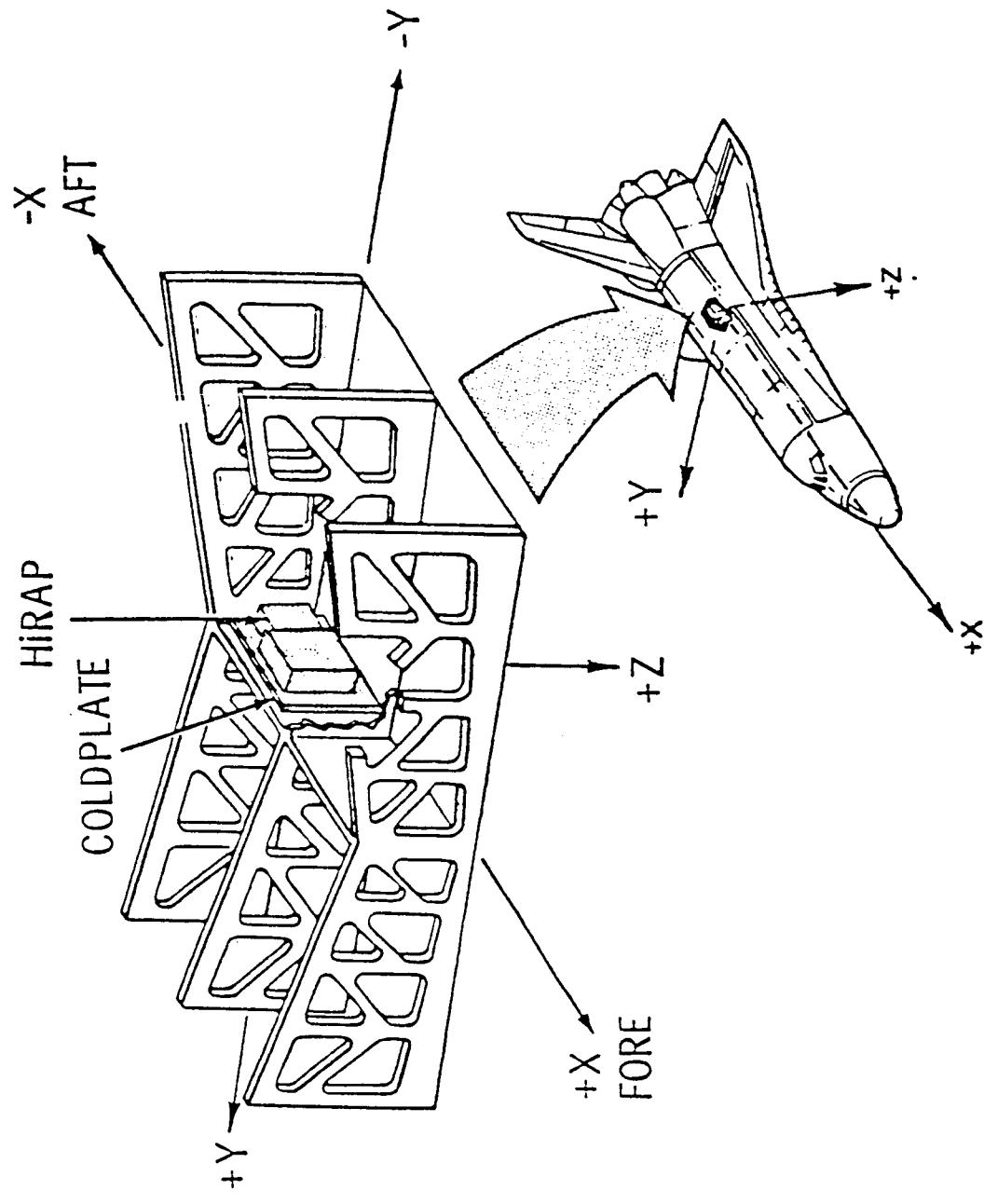
OVERVIEW OF SHUTTLE DATA
ON DENSITY

Robert Blanchard, NASA/Langley Research Center

The HiRAP (High Resolution Accelerometer Package) used on the Shuttle was described and examples of flight-derived density-altitude profiles were compared to the 1976 Standard Atmosphere. By flying an accelerometer along with a mass spectrometer it is possible to obtain the drag coefficients for the Shuttle. However [Champion] problems may arise due to contamination in the near-shuttle environment.

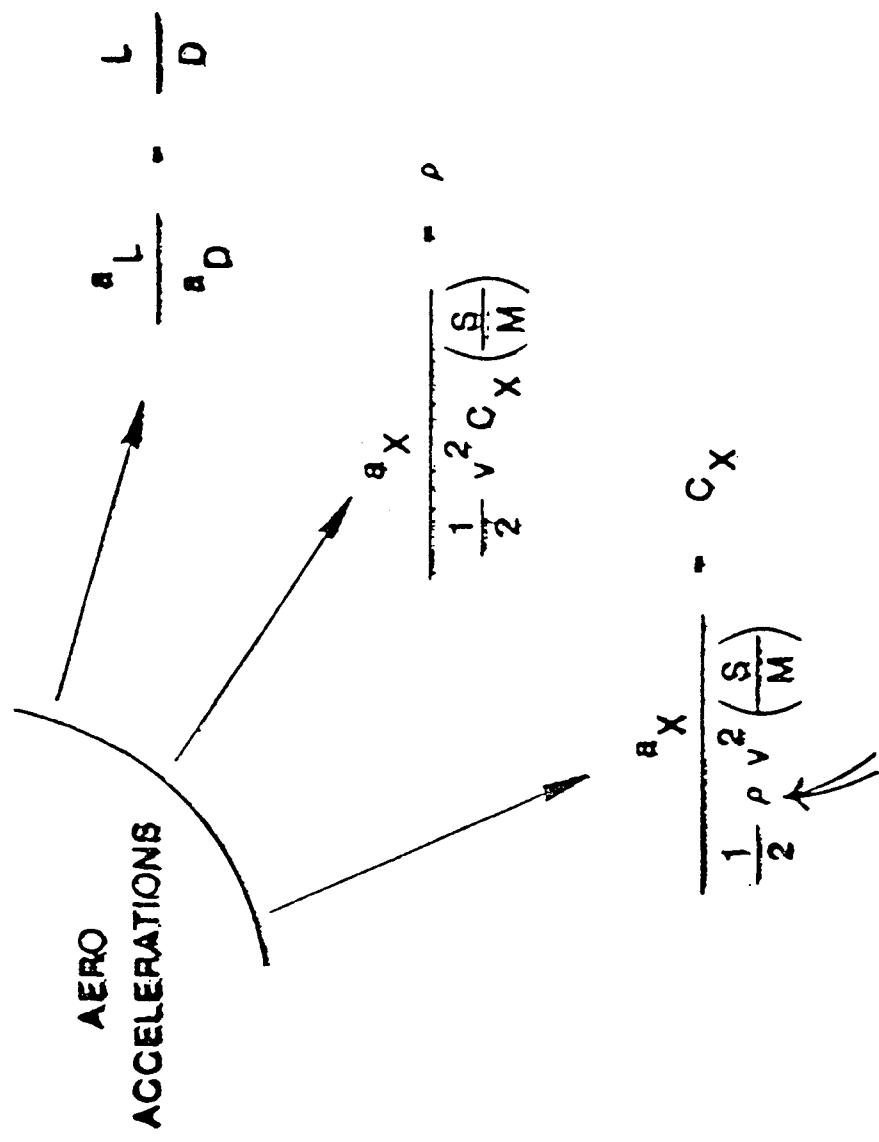
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HIGH RESOLUTION ACCELEROMETER PACKAGE (HiRAP)
ORIENTATION wrt VEHICLE AXES



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EXPERIMENT CONCEPTS



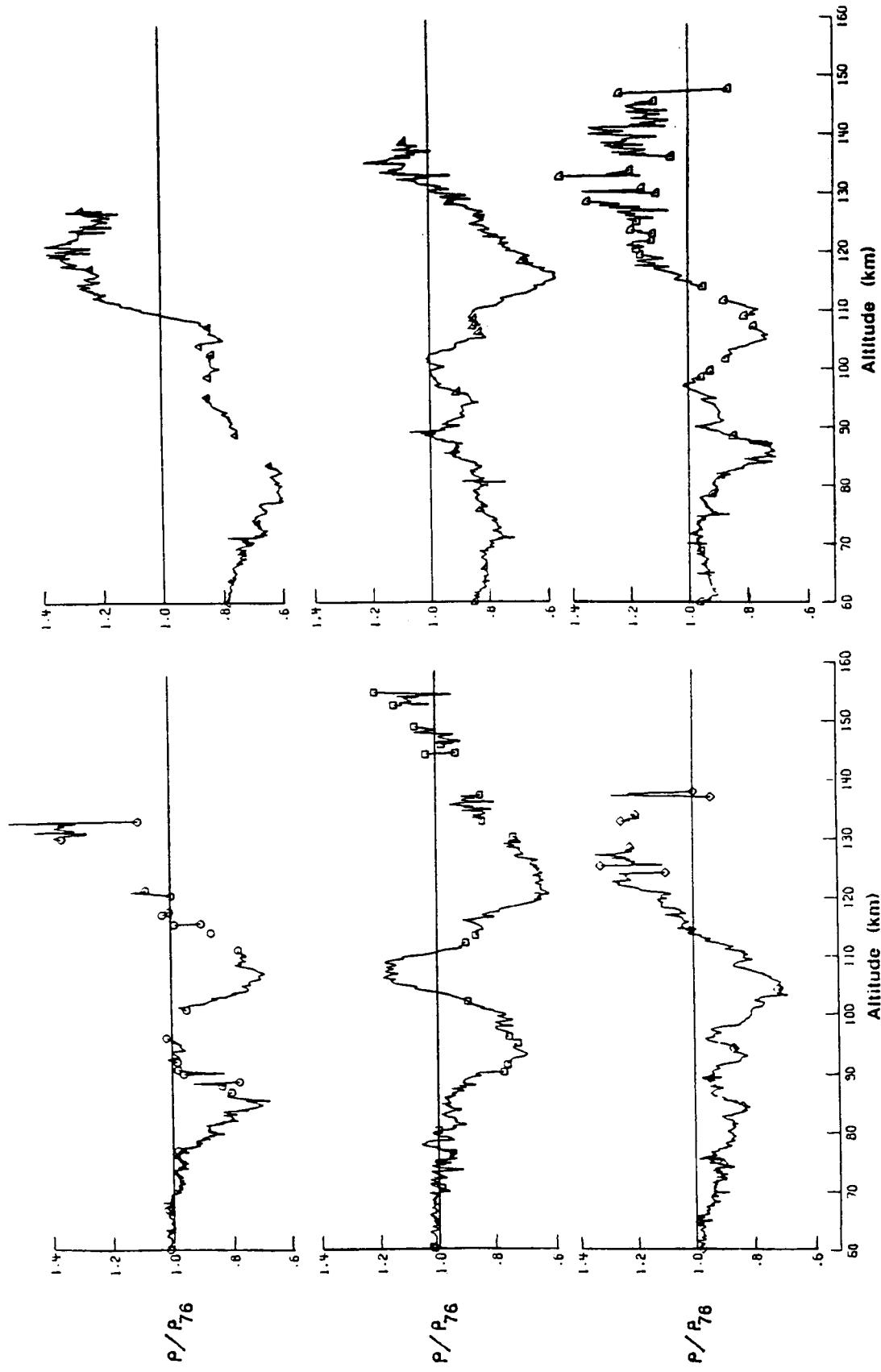
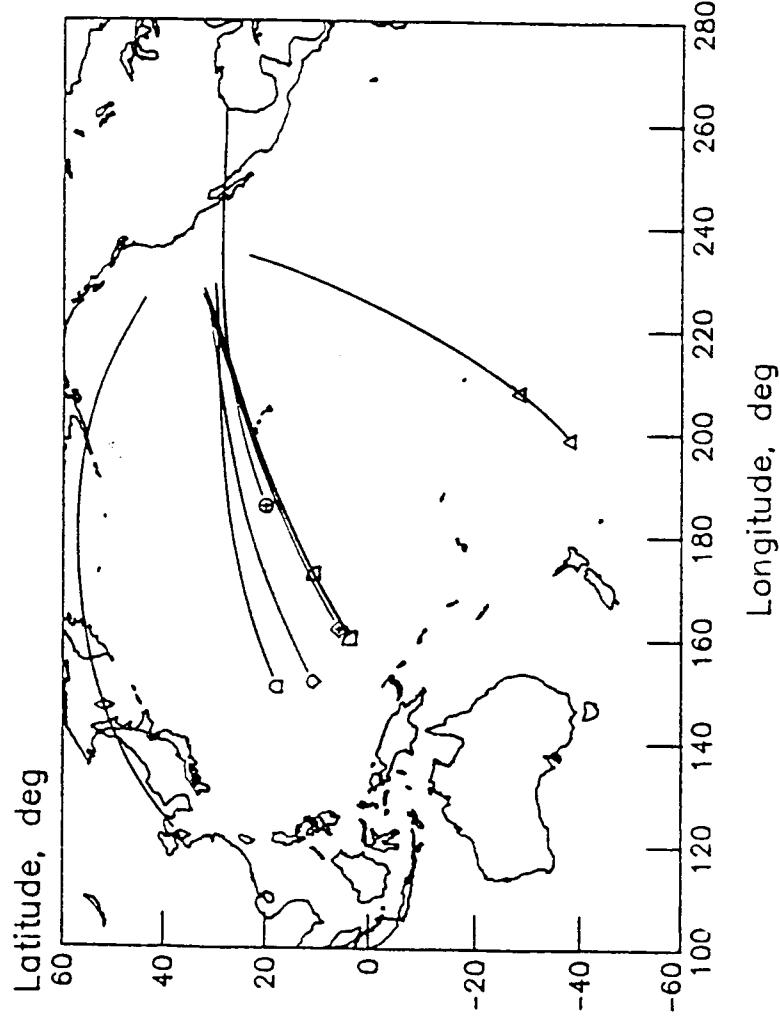
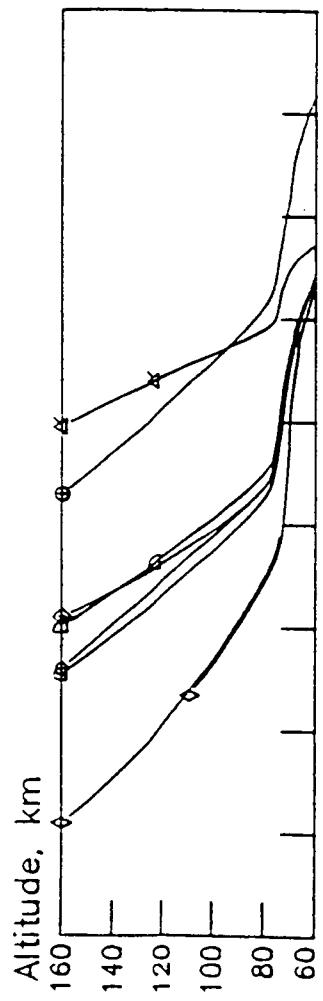


Fig. 12. - Flight derived density altitude profiles.



STS 6-9, 11, 13, 24 Entry Ground Tracks

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